

2.13 Application of panels in doors

2.13.1 Selection of panels as door skins

The selection of wood-panels for door skins depends on a number of factors of which the most important are:-

- adequate strength and stiffness
- moderate to high levels of impact resistance
- very smooth surface
- ability to take finishes easily
- good dimensional stability

The selection of panels fulfilling the above requirements is given in Table 2.20. The use of moulded fibreboards is illustrated in Figure 2.33.

2.13.2 Manufacture

It is important in the manufacture of doors that the door skin material is first conditioned to a moisture content close to that which it will achieve in service. Advice in the conditioning of boards is to be found in Section 4.2.

2.13.3 Finishes

Advice on the selection and application of finishes is provided in Section 4.7.



Figure 2.33 Example of moulded fibreboard interior door skin

TABLE 2.20 PANEL GRADES* FOR DOOR SKINS

Selection	DOOR SKINS		PLYWOOD EN 636	PARTICLEBOARD EN 312	OSB EN 300	MDF EN 622-5	FIBREBOARD EN 622-3,4	CBPB EN 634
	Internal doors	1	636-1	-	-	MDF	HB, MBH	-
	External doors	3	636-3	-	-	MDF.H	HB.H, MBH.H	-

* The table provides the minimum grade of panel that satisfies the particular set of requirements: panels of higher quality may be substituted, and their selection may result in a reduction in required thickness.

Although all the panels meeting the grade specifications will satisfy a particular set of requirements, the level of performance of different brands of these panels may vary considerably, some may even be endowed with high levels of properties not directly covered by the table.